



# Precision Rated Optics

Work with a PRO!

## TP6

## Multifunctional Test Platform



**Large 8.4" Touchscreen Display**

### Available Test and Inspection Modules

- VIP
- OTDR (with VFL)
- PON Power Meter (1310/1490/1550nm)
- Optical Power Meter
- Stabilized Light Source

### Design Your Modules

A "Plug-and-Play" module can accommodate up to four individual test instruments. At the time of ordering, simply tell us which instruments you need and they will be built into the module.

### Add Modules Later

If you desire, you can always add modules at a later time for greater functionality. The platform will accommodate up to three modules, stacked back-to-back.

To add additional test instrument functionality, you can either send us your original module for customization, or you can simply order another module and plug it into the back of the platform. Simple!

The TP6 is a compact, modular platform that allows for the "stacking" of up to three modules, providing a multitude of customizable configurations. Specifically designed for LAN, WAN FTTx and PON applications, the use of "Plug-and-Play" modules allows the TP6 to meet all of the test requirements for installers, contractors and service operators, performing network installation, service activation, maintenance or troubleshooting.

Some of the available features include an OTDR, Stabilized Light Source, PON Meter, Power Meter and Video Inspection Probe (VIP). An 8.4" TFT touchscreen display, with an intuitive onscreen interface makes operation quick and efficient.

Sold, Serviced and supported in the USA, the TP6 comes standard with a 1-Year manufacturer's warranty, as well as Li-Ion Battery, AC/DC adapter and carrying case.

### Platform Features (Mainframe)

- 8.4" TFT Touchscreen (800x600)
- Lithium-Ion Battery w/AC Adapter
- Optimized Power Management: 7 Hours of Continuous Operation
- Fast Boot-Up and Windows CE Operating System



**Add-on modules make adding functionality incredibly simple.**



**Platform Mainframe Standard Ports**

[www.PrecisionRatedOptics.com](http://www.PrecisionRatedOptics.com)

Tel: (888) 545-1254 • Fax: (415) 358-4602 • Email: [Sales@PrecisionRatedOptics.com](mailto:Sales@PrecisionRatedOptics.com)

### Platform Specifications (Mainframe)

Memory	2 GB
Ports	USB (x2); 10/100Mbit/s RJ-45x1
Power Supply	Li-Ion Battery/AC Adapter
Battery Life	7 Hours of Continuous Operation
Display	8.4" TFT Touchscreen (800 x 600px)
Weight & Dimensions (HxWxD)	12.6" x 7.5" x 2.8" / 4.6 lb(320 x 190 x 70mm / 2.1 kg) (Platform Only)

## Available Modules

### OTDR with VFL

Selectable Range	SM: 1.3, 2.5, 5, 10, 20, 40, 80, 160, 240Km MM: 1.3, 2.5, 5, 10, 20, 40Km
Pulse Width	SM: 5ns, 10ns, 30ns, 100ns, 300ns, 1 $\mu$ s, 2.5 $\mu$ s, 10 $\mu$ s, 20 $\mu$ s MM: 5ns, 10ns, 30ns, 1 $\mu$ s, 2.5 $\mu$ s
Visual Light Source	Output Power: $\geq$ -3dBm; MOD Frequency: 1 Hz; Detection Range: 5Km

\*All OTDR modules are available with built-in Power Meter

### OTDR Wavelength Options

P/N	Wavelength ( $\pm$ 20nm)	Dynamic Range (dB)	EDZ (m)	ADZ (m)
MFS20	1310/1550	45/43	1	4.5
MFS30	1310/1490/1550	38/38/37	1.5	10
MFS31	1310/1550/1625	38/37/37	1.4	9
MFS32	1310/1383/1550	38/37/37	1.5	10
MFS33	1310/1550/1650	38/37/37	1	4.5
MFQ40	850/1300/1310/1550	23/36/38/36	1.6	8/9/10/12
MFS41	1310/1490/1550/1625	38/37/36/36	1.5	10

### OPTIONAL Built-in OPM for OTDR Module

CAL Wavelengths	850, 1300, 1310, 1490, 1550, 1625, 1650nm
Power Range (dBm)	-70 ~ +10 (-60 ~ +10 @ 850nm)

### TP6 Standard Package Includes:

TP6 Platform, Li-Ion Battery, AC/DC Adapter/Charger, Rubber Boot and Soft Carrying Case

## TP6 Configurator

Mainframe	Dash	Modules	Dash	Power Meter	Options	Video Inspection Scope
TP6	-	AAAAA	-	B	C	D
TP6	-	MFS20 = 1310/1550nm, 45/43dB	-	P = Standard Power Meter	L = Live Testing	V = Video Inspection
		MFS30 = 1310/1490/1550nm, 38/38/37dB				
		MFS31 = 1310/1550/1625nm, 38/37/37dB				
		MFS32 = 1310/1383/1550nm, 38/37/37dB		N = Pass Thru Splitter Function		
		MFS33 = 1310/1550/1650nm, 38/37/37dB				
		MFQ40 = 850/1300/1310/1550nm, 23/36/38/36dB		S = Stable Light Source		
MFS41 = 1310/1490/1550/1625nm, 38/37/36/36dB						

TP6-MFS20-PSV = TPB Mainframe, MFS20 Module, Standard Power Meter, Continuous Light Source, Video Inspection Probe

## Module Example



Module port configurations determined by chosen options

### Optical Power Meter

CAL Wavelength	850, 1300, 1310, 1490, 1550, 1625, 1650nm	
Power Range (dBm)	-70 ~ +10 (-60 ~ +10 @ 850nm)	-50 ~ +27 (CATV)
Accuracy	$\pm$ 5% $\pm$ 0.01nW ( $\pm$ 0.5dB@850nm)	$\pm$ 5% $\pm$ 1nW ( $\pm$ 0.5dB@850nm)
Detector Type	InGaAs	
MOD Identification	270, 1K, 2K Hz	
Resolution	0.01dB	
Connectors	FC (Interchangeable SC, ST)	

### Stabilized Light Source

Wavelengths	1310, 1490, 1550, 1625nm ( $\pm$ 20nm)	
Emitter Types	FP-LD@1310, 1490, 1550nm; DFB-LD@1625nm	
Output Mode	CW, 270Hz, 1KHz, 2KHz	
Spectrum Width	$\leq$ 5nm	
Output Power	$\geq$ -3dBm	
Power Stability	$\pm$ 0.05dB/15min; $\pm$ 0.10dB/8hr	
Connectors	FC/UPC (Interchangeable SC, ST)	

### PON Power Meter

CAL Wavelengths	1310	1490	1550
Measurement Range	-40 ~ +10dBm	-40 ~ +10dBm	-40 ~ +10dBm
Spectral Passband	1310 $\pm$ 50nm	1490 $\pm$ 15nm	1550 $\pm$ 10nm
Power Accuracy	$\leq$ 0.5dB		
Display Resolution	0.01 dB		
Insertion Loss	$\leq$ 1.5 dB		

\*Pass-through PON Power Meter simultaneous measures triple-play signals (1310/1490/1550)

### Video Inspection Probe

Field of View	400 $\mu$ m x 300 $\mu$ m
Resolution	$\leq$ 1.5 $\mu$ m
Focusing	Manual Focus
Hand-Probe Dimensions	32mm x 175mm